***COMPLETE IN NOTEBOOK! SHOW ALL WORK IN NOTEBOOK!***

CW63/HW63: Special Right Δ 45°-45°-90° Pt II

**Geometry**

Due: Tuesday, 2/28

Type I

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| 1. Describe and correct the error this student made in finding the hypotenuse.   ../../../../../Desktop/Screen%20Shot%202016-01-24%20at%209.52.31%20AM | 1. a) Write the rule for finding the side lengths of a 45-45-90 triangle given the length of the hypotenuse.  b) Draw at least 2 examples of your rule above. Label the angles and sides. |

Type II

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| 1. Find x. | 1. Find the missing side lengths.   ../../../../../Desktop/Screen%20Shot%202016-01-24%20at%209.32.53%20AM | 1. Find x. |
| 1. Find n and m.   ../../../../../Desktop/Screen%20Shot%202016-01-21%20at%207.40.17%20PM | 1. Find x and y.   ../../../../../Desktop/Screen%20Shot%202016-01-24%20at%209.31.47%20AM | 1. Find the missing side lengths.   ../../../../../Desktop/Screen%20Shot%202016-01-24%20at%209.32.56%20AM |
| 1. Find a and b.   **../../../Desktop/Screen%20Shot%202016-01-24%20at%2010.07.05%20AM.png** | 1. Find u and v.   **../../../Desktop/Screen%20Shot%202016-01-24%20at%2010.07.39%20AM.png** | 1. Find x and y   **../../../Desktop/Screen%20Shot%202016-01-24%20at%2010.07.46%20AM.png** |
| 1. ../../../Desktop/Screen%20Shot%202016-01-24%20at%209.50.46%20AM.pngExplain the reasoning behind your answer choice in at least 2 complete sentences.   **../../../Desktop/Screen%20Shot%202016-01-24%20at%209.50.35%20AM.png** | | |

Type III

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| 1. Find t and u.   ../../../../../Desktop/Screen%20Shot%202016-01-24%20at%209.52.01%20AM | 1. The perimeter of a square is 36 inches. Find the length of a diagonal. Draw a figure. 2. The diagonal of a square is 26 inches. Find the length of a side. Draw a figure. |

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| 1. You are creating a quilt that will have a traditional “Flying geese” border, as shown below. 2. Find all the angle measures of the small blue triangles and the large orange triangles. 3. The width of the border is to be 3 inches. To crate the large triangle, you cut a square of fabric in half. Not counting extra fabric for seams. What size square do you need? *(answer should be in inches squared)* 4. What size square do you need to create each small triangle? *(answer should be in inches squared)* | **../../../../../Desktop/Screen%20Shot%202016-01-24%20at%209.58.48%20AM** |